



Pocket No. 23623-7043

RECEIVED
JUL 31 2001
TECH CENTER 1600/2900

Certificate of Mailing/Transmission (37 C.F.R. § 1.8(a)):

X Pursuant to 37 C.F.R. § 1.8, I hereby certify that this paper and all enclosures are being deposited with the United States Postal Service as first class mail on the date indicated below in an envelope addressed to the Assistant Commissioner for Patents, Washington D.C. 20231.

[] Pursuant to 37 C.F.R. § 1.6(d), I hereby certify that this paper and all enclosures are being sent via facsimile on the date indicated below to the attention of Examiner _____ at Facsimile No. _____ at _____ a.m./p.m.

Dated: July 23, 2001

Name of Person Certifying: Nancy Hine
Printed Name: Nancy Hine

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Jones et al.
Filing Date: November 09, 1999
Serial No.: 09/436,513Assignee: Genencor International, Inc.
Examiner: Patterson, C.
Group Art Unit: 1652Title: Chemically Modified Mutant Serine
Hydrolases Show Improved Catalytic Activity
And Chiral SelectivityAssistant Commissioner for Patents
Washington, D.C. 20231

AMENDMENT & RESPONSE (37 C.F.R. § 1.111)

Dear Sir:

Responsive to the Office Action mailed January 25, 2001 ("Office Action"), the period for response having been extended as a result of the enclosed Petition for Extension of Time and requisite fee, Applicants respectfully request reconsideration of the above-identified application in view of the following amendments and remarks.

Applicants submit herewith a copy of a SUBSTITUTE SPECIFICATION. Please enter the attached substitute specification pursuant to 37 C.F.R. § 1.125. A marked-up version of the original specification is enclosed.

IN THE CLAIMS

Please AMEND claims 1, 10, 11, 13, 51, 56, 57, and 59. Please CANCEL claims 12, 14 - 20, 58, and 60 as follows. Applicants acknowledge the withdrawal of claims 21 - 50. Following entry of this amendment, claims 1, 2 - 11, 13, 51 - 57, 59, 61, and 62 will be pending and at issue. A clean copy of the pending claim set is appended to the end of this response as Appendix I for the Examiner's convenience.

AI 1. (Amended) A modified serine hydrolase, said hydrolase comprising an amino acid residue in a subsite replaced with a cysteine, wherein the cysteine is modified by replacing the thiol hydrogen in the cysteine with a substituent group providing a thiol side chain comprising a chiral substituent.